

**brinno**  
*brilliant innovation*



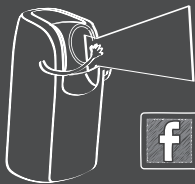
# TimeLapse

## HD Video Camera

### TLC 200 f1.2

# *User Manual*

[www.brinno.com](http://www.brinno.com)



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## Length of battery usage

Time Interval	Capture Frames	Battery Life
<b>ASAP</b>	450000	2.5 Days
<b>5 Seconds</b>	300000	3.6 Days
<b>10 Seconds</b>	260000	17 Days
<b>20 Seconds</b>	210000	30 Days
<b>30 Seconds</b>	180000	48 Days
<b>1 Minute</b>	120000	62 Days
<b>5 Minutes</b>	34560	83 Days
<b>10 Minutes</b>	17280	120 Days
<b>1 Hour</b>	2880	
<b>4 Hours</b>	720	
<b>24 Hours</b>	120	

## Thank you for purchasing a Brinno TimeLapse Camera!

The Brinno TimeLapse Camera (TLC200 f1.2) uses unique Time Lapse and Power Saving technologies to capture images for days, weeks, or even months. The Brinno TimeLapse Camera TLC200 f1.2 captures photos and stores them as videos making them easy to view. Turn it on, set the time interval, frame your subject, let it run and you have a time lapse video! No fancy equipment, no intervalometer, no complicated gear setups, no time-controlling, no video-making headaches.

If you have any questions or problems setting up your Brinno TimeLapse Camera please contact the sales staff where you purchased our product or email us at Brinno Incorporated directly [customerservice@brinno.com](mailto:customerservice@brinno.com)  
Please Visit our website [www.brinno.com](http://www.brinno.com)

### Time Lapse Camera TLC200 f1.2 Features



#### Large Aperture

Better low light recording and sharper images.



#### Wide Angle View

140° Field of View.  
A wider area to be recorded creating panoramic images



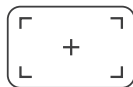
#### Time Lapse Video

TLC200 f1.2 provides you a 1280x720 resolution video, yes, it's HD video.



#### Power Saving

Unique Power Control, means 4 AA batteries can capture 300,000 frames.



#### LCD Viewfinder

The 1.44" LCD screen, allows you to easily frame your subject.



#### Rotatable Lens

Provides greater flexibility in targeting your subject!

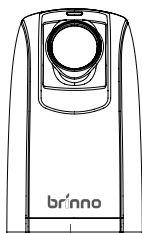
### TLC200 f1.2 Output file format

- [Video Mode] **Format** AVI. **Resolution** 1280x 720, 640x 480

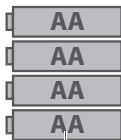
**Note:** The maximum size of each single AVI file ranges between 8,192 to 20,480 frames, depending on the time interval setting.

- Still Image Mode] **Format** JPEG. **Resolution** 1280x 720, 640x 480

# Package Contents



①



②



③

- 1** TimeLapseCam (TLC200 f1.2) **2** 4 AA Batteries **3** SD card\*

\* SD Card may or may not be included, please check the contents list on the package.

## Parts of the Camera

### Front



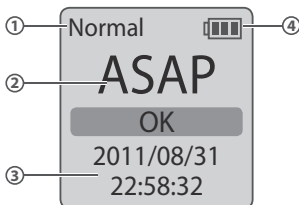
### Back



- |   |  |                             |
|---|--|-----------------------------|
| <b>1</b> SD Card Cover  | <b>4</b> Metal Ring<br>(for ATM100, ATL045 ) | <b>9</b> TIME (▶) Button    |
| <b>2</b> Connector for Extension<br>Accessories<br>(For ATS100, ATM100)         | <b>5</b> Battery Door                        | <b>10</b> OK/ START Button  |
| <b>3</b> Connector for Micro USB cable<br>(For extension power supplier, DC 5V) | <b>6</b> Strap Eyelet                        | <b>11</b> Power Switch      |
|   | <b>7</b> LCD Screen                          | <b>12</b> LED Indicator     |
|   | <b>8</b> MENU (◀) Button                     | <b>13</b> Tripod Screw Hole |

# Display Icons

## Set Up screen



## Preview screen



## At Set Up screen

- 1 Capture mode  
**Normal:** Time Lapse mode  
**Shutter:** Shutter Line mode  
**Motion:** Motion Activated mode
- 2 Time interval  
Select the pre-set time interval or customize yourself.
- 3 System date and time
- 4 Battery level

Icon	Description
(green)	Battery fully charged.
(green)	Battery partially discharged.
(yellow)	Low battery. Replace as soon as possible.
(red)	Out of battery. Replace battery immediately.

## At Preview screen

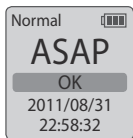
- 5 Video/ Image resolution
- 6 Preview image capture window

## Status icon

- 7 Battery Empty  
Please replace battery immediately.
- 8 SD Card Full  
Please download files to clear SD card space.
- 9 SD Card Error  
Please replace SD card.
- 10 No Card  
Please Insert SD card.

## ! About Power Saving

### Set up screen



10 sec.

### Preview screen



20 sec.

### Turn off LCD



#### 1 At Set Up Screen

After **10** seconds without activity on the set up screen, the camera will go to Preview screen automatically. You can press the **MENU** or **TIME** button to go back to the set up screen.

#### 2 At Preview Screen

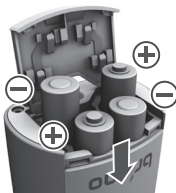
After **20** seconds without activity on the set up or preview screen, the LCD screen will turn off automatically to save power. You can press the **OK** button to wake up camera.

## Initial Step-1 Install Batteries and SD Card

1



2



3



1 Open battery door.

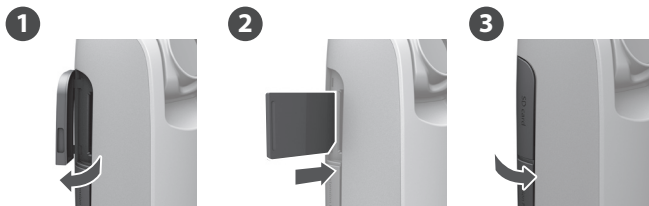
2 Insert 4 AA batteries.

3 Close battery door.

! Be sure the battery cover is locked into place.

## Initial Step-2

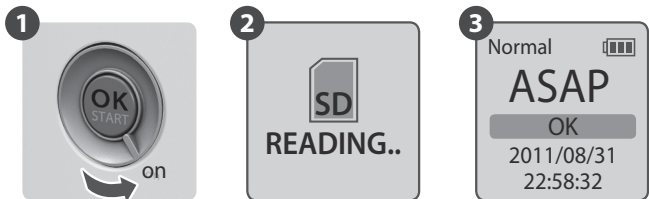
## Install SD Card



- 1 Open SD card cover.
- 2 Insert SD card until it clicks into place.
- 3 Close SD card cover.

## Initial Step-3

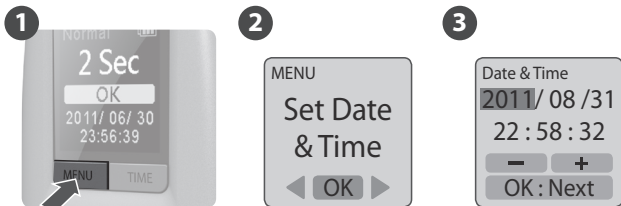
## Turning the Camera on



- 1 Rotate the **Power** switch to **ON** position.
- 2 Process screen  
⚠ It may display other information on screen, please refer to page 3.
- 3 Set Up screen  
**Now, you can set Date and Time and Time Interval before you use your TimeLapse Camera!**

## Initial Step-4

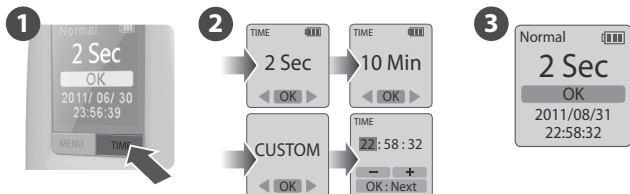
## Set Date and Time



- 1 Press **MENU** button.
- 2 Press **TIME** (▶) to select **Set Date & Time (MENU 5/10)**, and press **OK**.
- 3 At the highlight field, press **MENU** (—) to decrease value, press **TIME** (+) to increase value, press **OK** to confirm and go to the next field. When finished press **OK** to exit set up.

## Initial Step-5

## Set Time Interval



- 1 Press **TIME** button to enter time interval set up.
- 2 Press **MENU** (◀) and **TIME** (▶) to select a pre-set time interval or customize it by yourself. When complete, press the OK Button to confirm and return to the Set up screen. (ASAP option: everysecond can capture 2 photos)
- 3 Now you are back to the Set up screen  
**Now, you are ready to go to Preview screen and start recording your Time Lapse Videos.**

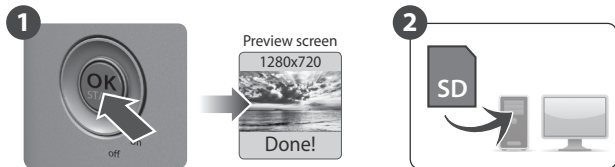


## Start Recording



- 1 Turn on TLC200 f1.2, set time interval and press OK to **Preview Screen**.
- 2 Adjust lens angle to frame subject.
- 3 At Preview screen, press OK button to start recording, during recording period the LCD panel will turn off to save power.

## Stop Recording



- 1 While recording, hold the **OK** button until the LCD lights on and shows the **Preview Screen**, it will display text "**Done!**". This indicates the recording session is over .
- 2 Remove the SD card from the camera, and plug it into your computer or notebook to enjoy your amazing Time Lapse Videos!

## LED Indicator



**Green LED light: indicates Image capture in process**  
When the Green LED flashes, the Time Lapse Camera (TLC200 f1.2) is capturing photos.

**Red LED light: Low battery level, Low recording space on your SD card**

## AVI Playback Frame Rate

You can change the videos FPS (frames per second) playback with this setting.

1

MENU

AVI Frame Rate

◀ OK ▶

2

Frame Rate

10 FPS

◀ OK ▶

**10 FPS (Frames Per Second) means:**  
10 frames are played in 1 second.

1 Select **AVI Frame Rate**.

2 What frame rate should I use?

Generally, use 10 FPS is suitable for Time Lapse video.

**1 FPS:** The video plays 1 frame per second, so the video will look not smooth, and the video length will be longer.

**30 FPS:** The video plays 30 frames per second, so the video will look smooth, and the video length will be shorter.

## Image Quality

Set the image quality for your camera.

1

Image Quality

Best

◀ OK ▶

2

Image Quality

Better

◀ OK ▶

3

Image Quality

Good

◀ OK ▶

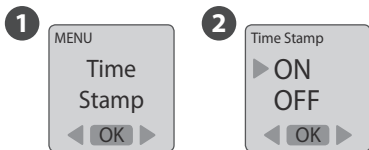
1 Select **Image Quality**

2 There are three options you can select: **Best, Better, Good**

## ***Time Stamp***

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You can choose if you want to show the time stamp at bottom of your video.



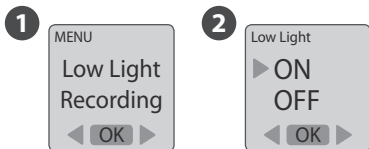
**1** Select **Time Stamp**.

**2** Select ON or OFF.

## ***Low Light Recording***

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You can choose to enable your camera to keep recording video in a low light environment (< 5 Lux).



**1** Select **Low Light Recording**.

**2** ON: Allows your camera to record video in a low light environment.  
OFF: Your camera will go to **sleep** in a low light environment.

## Set Date and Time

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Set the correct date and time for your camera.



- 1 Select **Set Date & Time**.
- 2 At the highlight field, press **MENU** (—) to decrease the value, press **TIME** (+) to increase the value, press OK to confirm and go to the next field. When finished, press OK to exit set up.

## Output Resolution

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You can change video resolution with this setting.

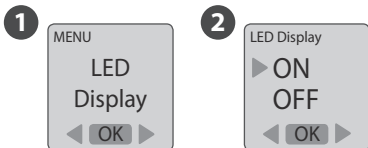


- 1 Select **Output Resolution**.
- 2 There are two options you can select: **1280x720**, **640x480**.

## ***LED Display***

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You can choose if the LED indicator will flash while capturing each frame, or not flash at all.



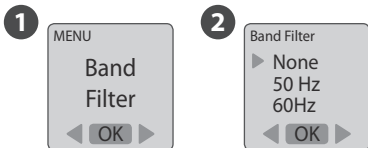
**1** Select **LED Display**.

**2** **ON:** When the camera is capturing a frame, the LED indicator will flash once.  
**OFF:** During capture period the LED indicator will not flash .

## ***Band Filter***

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Select the correct fluorescent lighting frequency to match your indoor lighting frequency.



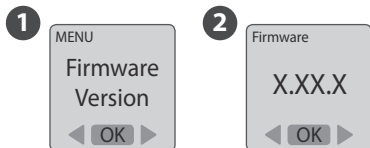
**1** Select **Band Filter**.

**2** **None:** For outdoor environment.  
**50 Hz:** USA  
**60 Hz:** Europe

## Firmware Version

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Display the current firmware version of camera.



1 Select **Firmware Version**.

2 Display the firmware version for 30 seconds, or press the OK button to exit.

## Reset

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You can reset your camera back to the default setting.



■ Select **Reset**.

■ Select **YES** and press the OK button to reset your camera.

### Default Settings:

Function	Setting
AVI Frame Rate	<b>10 FPS</b>
Image Quality	<b>Better</b>
Time Stamp	<b>ON</b>
Low Light Recording	<b>ON</b>
Output Resolution	<b>1280x720</b>
LED Display	<b>ON</b>
Band Filter	<b>None</b>
Time Interval	<b>2 Seconds</b>



# Accessories

**Time Lapse Camera**

## Accessories Wide-Angle Lens (ATL045)

# MAGNET MOUNT CONVERSION LENS -0.45 WIDE-ANGLE-



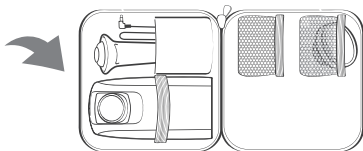
## Enlarge your vision with Wide-Angle Lens!

Capture the changes of magnificent scenery, and discover the city in a different way. You will capture an entirely new scene when you add the wide angle lens!

## Accessories Camera Pouch (ATP100)

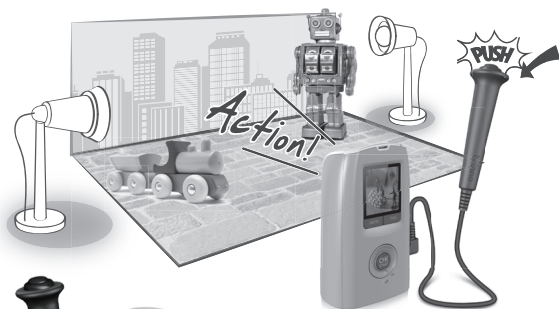


Easy way to secure your Time Lapse Camera and accessories.





# SHUTTER LINE for Time Lapse Camera



## **EASY to CREAT STOP MOTION VIDEO!**

In the past, in order to create stop motion video, you will need Hi-end equipment and lots of time to edit thousands photos. But now, the Brinno TLC200 f1.2 and shutter line will help you save time and make it easy to make a stop motion video!



## Accessories Motion Sensor (ATM100)



Motion Detected

- **Waterproof:** IP54
- **Detect Angle:** 90°
- **Detect Distance:** 4 meters



### ***Perfect for HOME & PROPERTY SECURITY!***

Adding the Motion Sensor (ATM100) to Time Lapse camera (TLC200 f1.2), will allow the camera to detect any movement and wake up and take pictures automatically. It can take thousands of photos and convert them into a video, making them easy to review.

## Accessories Weather Resistant Housing (ATH100)

### ***For Outdoor Use***

- **Waterproof:** IP54



### ***Whether it is Natures Beauty, Plant Growth or a Construction Project***

The Weather Resistant Housing (ATH100) allows the Time Lapse Camera (TLC200 f1.2) to function safely outdoors in any weather. Your Time Lapse Camera (TLC200 f1.2) will be protected against severe weather, so you can keep recording images in any season or location.

# Specifications

<b>Camera</b>	
<b>Model</b>	TLC200 f1.2
<b>LCD Screen</b>	1.44" TFT LCD
<b>Rotate Lens</b>	120°
<b>Waterproof</b>	Optional, (In use with Weather Resistant Housing (ATH100))
<b>Capture Mode</b>	
<b>Time Lapse</b>	Auto generate Time Lapse video
<b>Stop Motion</b>	Optional, (In use with Shutter Line (ATS100))
<b>Motion Activated</b>	Optional, (In use with Motion Sensor (ATM100))
<b>Optics Lens</b>	
<b>Aperture</b>	F1.2
<b>Lens type</b>	Aspherical Lens
<b>Field of View</b>	140°
<b>Focal Length</b>	18 mm (35mm equivalent)
<b>Focus Distance</b>	30 cm (Minimum)
<b>Recording</b>	
<b>Time Lapse Video</b>	Format: AVI Resolution: 1280x 720, 640x 480
<b>Still Image</b>	Format: JPEG (only for using Shutter Line) Resolution: 1280x 720, 640x 480
<b>Memory Storage</b>	SD Card (Supported up to 32 GB)
<b>Time Interval</b>	
<b>ASAP</b>	0.5 ~ 1 second
<b>Custom</b>	From 1 second to 24 hours
<b>Power</b>	
<b>Power source</b>	Battery: 4 AA Batteries DC IN: 5V (Micro USB connector)
<b>Battery Life</b>	3.6 Days, at 1 second time interval, captures 310,000 frames 120 Days, at 24 hours time interval, captures 120 frames
<b>Dimension</b>	
<b>Size (DxWxH)</b>	64x 46x 106 mm
<b>Weight</b>	120 g (without batteries)
<b>Color</b>	Green/ Black

# Package Contents

<b>TimeLapse Camera (TLC200 f1.2)..1</b>	<b>4GB SD card*..... 1</b>
<b>AA Battery ..... 4</b>	<b>User Manual ..... 1</b>

\* SD Card may or may not be included, please check the contents list on the package.

